OIPE

RAW SEQUENCE LISTING   DATE: 05/20/2002
PATENT APPLICATION: US/10/026,952   TIME: 14:11:45

Input Set : A:\seqlist-0942 4980006 ascii
Output Set: N:\CRF3\05202002\J026952.raw

```
  5 <110> APPLICANT: Nazarenko, Irina
  7        Rashtchian, Ayoub
  9        Solus, Joseph
 11        Pires, Richard M.
 13        Darfler, Marlene
 15        Gebeyehu, Gulilat
 17        Astatke, Mekbib
 21 <120> TITLE OF INVENTION: Primers and Methods for the Detection and
 22        Discrimination of Nucleic Acids
 26 <130> FILE REFERENCE: 0942.4980006
 29 <140> CURRENT APPLICATION NUMBER: 10/026,952
 31 <141> CURRENT FILING DATE: 2002-04-30
 34 <150> PRIOR APPLICATION NUMBER: 60/330,468
 36 <151> PRIOR FILING DATE: 2001-10-23
 40 <150> PRIOR APPLICATION NUMBER: 60/139,890
 42 <151> PRIOR FILING DATE: 1999-06-22
 46 <150> PRIOR APPLICATION NUMBER: 60/175,959
 48 <151> PRIOR FILING DATE: 2000-01-13
 52 <150> PRIOR APPLICATION NUMBER: 09/599,594
 54 <151> PRIOR FILING DATE: 2000-06-22
 58 <150> PRIOR APPLICATION NUMBER: 09/748,146
 60 <151> PRIOR FILING DATE: 2000-12-27
 64 <160> NUMBER OF SEQ ID NOS: 139
 68 <170> SOFTWARE: PatentIn version 3.1
 72 <210> SEQ ID NO: 1
 74 <211> LENGTH: 23
 76 <212> TYPE: DNA
 78 <213> ORGANISM: Artificial Sequence
 82 <220> FEATURE:
 84 <223> OTHER INFORMATION: Primer
 86 <220> FEATURE:
 88 <221> NAME/KEY: misc_feature
 90 <222> LOCATION: (18)..(18)
 92 <223> OTHER INFORMATION: Fluorescently labeled
 96 <400> SEQUENCE: 1
 97 ccttctcatg gtggctgtag aac                                          23
100 <210> SEQ ID NO: 2
102 <211> LENGTH: 23
104 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
112 <223> OTHER INFORMATION: Primer
114 <220> FEATURE:
```

C--> (line 31 marked)

ENTERED

RAW SEQUENCE LISTING   DATE: 05/20/2002
PATENT APPLICATION: US/10/026,952   TIME: 14:11:45

Input Set : A:\seqlist-0942 4980006 ascii
Output Set: N:\CRF3\05202002\J026952.raw

```
116 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (1)..(1)
120 <223> OTHER INFORMATION: Fluorescently labeled
124 <400> SEQUENCE: 2
125 ccttctcatg gtggctgtag aac                                    23
128 <210> SEQ ID NO: 3
130 <211> LENGTH: 23
132 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
140 <223> OTHER INFORMATION: Primer
142 <400> SEQUENCE: 3
143 ggtctacagc caccatgaga agg                                    23
146 <210> SEQ ID NO: 4
148 <211> LENGTH: 23
150 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
158 <223> OTHER INFORMATION: Primer
160 <400> SEQUENCE: 4
161 ggggctgcga ctgtgctccg gca                                    23
164 <210> SEQ ID NO: 5
166 <211> LENGTH: 23
168 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
176 <223> OTHER INFORMATION: Primer
178 <400> SEQUENCE: 5
179 tgccggagca cagtcgcagc ccc                                    23
182 <210> SEQ ID NO: 6
184 <211> LENGTH: 20
186 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
194 <223> OTHER INFORMATION: Primer
196 <220> FEATURE:
198 <221> NAME/KEY: misc_feature
200 <222> LOCATION: (1)..(1)
202 <223> OTHER INFORMATION: Fluorescently labeled
206 <400> SEQUENCE: 6
207 aataatagga tgaggcagga                                        20
210 <210> SEQ ID NO: 7
212 <211> LENGTH: 20
214 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
222 <223> OTHER INFORMATION: Primer
224 <220> FEATURE:
226 <221> NAME/KEY: misc_feature
```

RAW SEQUENCE LISTING   DATE: 05/20/2002
PATENT APPLICATION: US/10/026,952   TIME: 14:11:45

Input Set : A:\seqlist-0942 4980006 ascii
Output Set: N:\CRF3\05202002\J026952.raw

```
228 <222> LOCATION: (1)..(1)
230 <223> OTHER INFORMATION: Labeled with BODIPY 530/550
234 <400> SEQUENCE: 7
235 aataatagga tgaggcagga                                              20
238 <210> SEQ ID NO: 8
240 <211> LENGTH: 20
242 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
250 <223> OTHER INFORMATION: Primer
252 <400> SEQUENCE: 8
253 tcctgcctca tcctattatt                                              20
256 <210> SEQ ID NO: 9
258 <211> LENGTH: 23
260 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
268 <223> OTHER INFORMATION: Primer
270 <400> SEQUENCE: 9
271 gagttgaccg taacagacat ctt                                          23
274 <210> SEQ ID NO: 10
276 <211> LENGTH: 24
278 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
286 <223> OTHER INFORMATION: Primer
288 <400> SEQUENCE: 10
289 ggcattgccg acaggatgta gaag                                         24
292 <210> SEQ ID NO: 11
294 <211> LENGTH: 18
296 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
304 <223> OTHER INFORMATION: Primer
306 <400> SEQUENCE: 11
307 gggccggact cgtcatac                                                18
310 <210> SEQ ID NO: 12
312 <211> LENGTH: 28
314 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
322 <223> OTHER INFORMATION: Primer
324 <400> SEQUENCE: 12
325 ggttgtagag cactcagcac aatgaaga                                     28
328 <210> SEQ ID NO: 13
330 <400> SEQUENCE: 13
```
W--> 331 000
```
334 <210> SEQ ID NO: 14
336 <211> LENGTH: 23
```

RAW SEQUENCE LISTING   DATE: 05/20/2002
PATENT APPLICATION: US/10/026,952   TIME: 14:11:45

Input Set : A:\seqlist-0942 4980006 ascii
Output Set: N:\CRF3\05202002\J026952.raw

338 <212> TYPE: DNA
340 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
346 <223> OTHER INFORMATION: Primer
348 <400> SEQUENCE: 14
349 ccttctcatg gtggctgtag aac   23
352 <210> SEQ ID NO: 15
354 <211> LENGTH: 23
356 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
364 <223> OTHER INFORMATION: Primer
366 <400> SEQUENCE: 15
367 ccttctcatg gtggctgtag aat   23
370 <210> SEQ ID NO: 16
372 <211> LENGTH: 24
374 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
380 <220> FEATURE:
382 <223> OTHER INFORMATION: Primer
384 <400> SEQUENCE: 16
385 gtgtccttct catggtggct gtag   24
388 <210> SEQ ID NO: 17
390 <211> LENGTH: 24
392 <212> TYPE: DNA
394 <213> ORGANISM: Artificial Sequence
398 <220> FEATURE:
400 <223> OTHER INFORMATION: Primer
402 <400> SEQUENCE: 17
403 gtgtccttct catggtggct gtat   24
406 <210> SEQ ID NO: 18
408 <400> SEQUENCE: 18
W--> 409 000
412 <210> SEQ ID NO: 19
414 <211> LENGTH: 23
416 <212> TYPE: DNA
418 <213> ORGANISM: Artificial Sequence
422 <220> FEATURE:
424 <223> OTHER INFORMATION: Primer
426 <220> FEATURE:
428 <221> NAME/KEY: misc_feature
430 <222> LOCATION: (18)..(18)
432 <223> OTHER INFORMATION: Fluorescently labeled
436 <400> SEQUENCE: 19
437 ccttctcatg gtggctgtag aat   23
440 <210> SEQ ID NO: 20
442 <211> LENGTH: 24
444 <212> TYPE: DNA
446 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING   DATE: 05/20/2002
PATENT APPLICATION: US/10/026,952   TIME: 14:11:45

              Input Set : A:\seqlist-0942 4980006 ascii
              Output Set: N:\CRF3\05202002\J026952.raw

450 <220> FEATURE:
452 <223> OTHER INFORMATION: Primer
454 <220> FEATURE:
456 <221> NAME/KEY: misc_feature
458 <222> LOCATION: (22)..(22)
460 <223> OTHER INFORMATION: Fluorescently labeled
464 <400> SEQUENCE: 20
465 gtgtccttct catggtggct gtag   24
468 <210> SEQ ID NO: 21
470 <211> LENGTH: 24
472 <212> TYPE: DNA
474 <213> ORGANISM: Artificial Sequence
478 <220> FEATURE:
480 <223> OTHER INFORMATION: Primer
482 <220> FEATURE:
484 <221> NAME/KEY: misc_feature
486 <222> LOCATION: (22)..(22)
488 <223> OTHER INFORMATION: Fluorescently labeled
492 <400> SEQUENCE: 21
493 gtgtccttct catggtggct gtat   24
496 <210> SEQ ID NO: 22
498 <211> LENGTH: 25
500 <212> TYPE: DNA
502 <213> ORGANISM: Artificial Sequence
506 <220> FEATURE:
508 <223> OTHER INFORMATION: Primer
510 <220> FEATURE:
512 <221> NAME/KEY: misc_feature
514 <222> LOCATION: (23)..(23)
516 <223> OTHER INFORMATION: Labeled with fluoroscein
520 <400> SEQUENCE: 22
521 ctaccgggtg tctgtgtctc ggtag   25
524 <210> SEQ ID NO: 23
526 <211> LENGTH: 20
528 <212> TYPE: DNA
530 <213> ORGANISM: Artificial Sequence
534 <220> FEATURE:
536 <223> OTHER INFORMATION: Primer
538 <400> SEQUENCE: 23
539 cgtacctggc tatctgtgtc   20
542 <210> SEQ ID NO: 24
544 <211> LENGTH: 20
546 <212> TYPE: DNA
548 <213> ORGANISM: Artificial Sequence
552 <220> FEATURE:
554 <223> OTHER INFORMATION: Primer
556 <400> SEQUENCE: 24
557 cgtacctggc tatctgtgtt   20
560 <210> SEQ ID NO: 25

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/20/2002
PATENT APPLICATION: US/10/026,952   TIME: 14:11:46

Input Set : A:\seqlist-0942 4980006 ascii
Output Set: N:\CRF3\05202002\J026952.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:85; N Pos. 23
Seq#:92; N Pos. 32
Seq#:129; N Pos. 16
Seq#:131; N Pos. 1,2